



## NCDOT Prioritization 3.0 Project Summary

**SPOT ID:** H090292

**Mode:** Highway

**Status:** Submitted

### NC-24

**From/Cross Street:** NC 58

**Specific Improvement Type:** 7 - Upgrade At-grade Intersection to Interchange or Grade Separation

**To:**

**Project Category:** Statewide Mobility

**Length:** 2

**TIP#:** R-4721

**Fully Funded in Draft STIP?** No

**Cost to NCDOT:** \$29,880,000

#### Description:

Convert at-Grade intersection to interchange

**Division(s):** Division 2

**County(s):** CARTERET

**MPOS(s)/RPO(s):** Down East RPO

### Project Location



**Statewide Mobility Total Score: 33.74**

| <b>Quantitative Score</b>   | <b>Division Engineer<br/>Local Input Points</b> | <b>MPO/RPO Local<br/>Input Points</b> |
|---|---|---------------------------------------|
| Congestion (V/C) (30%) 62.10<br>Safety (10%) 83.35<br>Economic Competitiveness (10%) 3.78<br>Multimodal + [Freight & Military] (20%) 30.36<br>[Travel Time] Benefit/Cost (30%) 1.09 | N/A   | N/A                                   |
| <b>Totals: Weight: 100% Weighted Score: 33.74</b>   |   |                                       |

**Regional Impact Total Score: 36.15**

| <b>Quantitative Score</b>  | <b>Division Engineer<br/>Local Input Points</b> | <b>MPO/RPO Local<br/>Input Points</b> |
|--|---|---------------------------------------|
| Safety (25%) 83.35<br>Multimodal + [Freight & Military] (25%) 30.36<br>[Travel Time] Benefit/Cost (20%) 1.09 | Percent: 15%<br>Points: 0                       | Percent: 15%<br>Points: 50            |
| <b>Totals: Weight: 70% Weighted Score: 28.65</b>   |   |                                       |

**Division Needs Total Score: 32.13**

| <b>Quantitative Score</b>   | <b>Division Engineer<br/>Local Input Points</b> | <b>MPO/RPO Local<br/>Input Points</b> |
|---|---|---------------------------------------|
| Safety (20%) 83.35<br>Multimodal + [Freight & Military] (10%) 30.36<br>Congestion (V/C) (20%) 62.10 | Percent: 25%<br>Points: 0                       | Percent: 25%<br>Points: 0             |
| <b>Totals: Weight: 50% Weighted Score: 32.13</b>  |   |                                       |

**Project Data \*****Existing Conditions**

|   |                          |
|---|--------------------------|
| Existing Cross-Section:                     |                          |
| Speed Limit:                                | 35                       |
| Length (miles):                             | 2                        |
| Facility Type:                              | Arterial                 |
| Access Control:                             | None                     |
| Functional Classification:                  | Other Principal Arterial |
| Terrain Type:                               | Level                    |
| Lane Width:                                 | 12                       |
| Paved Shoulder Width:                       | 0                        |
| Roadway has Curb & Gutter?                  | Yes                      |
| Volume (AADT):                              | 37328.4                  |
| Capacity:                                   | 47482.83                 |
| Volume/Capacity Ratio:                      | 0.79                     |
| % Autos:                                    | 94%                      |
| % Trucks:                                   | 6%                       |
| Truck Volume:                               | 2141.23                  |
| Crash Density:                              | 0                        |
| Crash Severity:                             | 0                        |
| Critical Crash Rate:                        | 0                        |
| Crash Frequency:                            | 100                      |
| Severity Index:                             | 66.7                     |
| County Tier Designation:                    | 3                        |
| Non-Interstate STRAHNET Route?              | Yes                      |
| Average Commuting Time:                     | 26                       |
| Existing Median Type (for Cost Estimation): | TWLTL                    |
| Pavement Condition Rating:                  | 79                       |
| Actual Congested Speed:                     | 40                       |
| Travel Time Index:                          | 0.87                     |

**Project Benefits**

|  |                          |
|--|--------------------------|
| Project Cross-Section:                                 |                          |
| Speed Limit:   | 45                       |
| Length (miles):  | 2                        |
| Facility Type:   | Arterial                 |
| Access Control:  | Partial                  |
| Functional Classification:                             | Other Principal Arterial |
| Terrain Type:  | Level                    |
| DOT Design Lane Width:                                 | 12                       |
| DOT Design Paved Shoulder Width:                       | 4                        |
| Travel Time Savings for 30 Years (Total):              | 1448000                  |
| Travel Time Savings for 30 Years (Autos):              | 1364939.96               |
| Travel Time Savings for 30 Years (Trucks):             | 83060.04                 |
| Long-Term Employment:                                  | 25                       |
| % Change in Economy:                                   | 5.05E-05                 |
| Provides Direct Connection to Transportation Terminal? | No                       |
| Does project upgrade how the roadway functions?        | Yes                      |
| In CTP or LRTP?  | No                       |
| CTP/LRTP Name:   |                          |
| CTP/LRTP Completion Year:                              |                          |
| Submitted by:  | Division 2               |

\* Data reflects calculations which include weighted averages (where applicable) and represent raw output from the Department's SPOT Online tool and associated databases.

**Project Ownership****Division**

| <b>Division</b>              | <b>Percent</b> | <b>Regional Impact</b> | <b>Division Needs</b> |
|------------------------------|----------------|------------------------|-----------------------|
| Division 2                   | 100%           | 0                      | 0                     |
|                              | 0%             | 0                      | 0                     |
|                              | 0%             | 0                      | 0                     |
| <b>TOTAL Division Points</b> |                | <b>0</b>               | <b>0</b>              |

**MPO/RPO**

| <b>MPO/RPO</b>              | <b>Percent</b> | <b>Regional Impact</b> | <b>Division Needs</b> |
|-----------------------------|----------------|------------------------|-----------------------|
| Down East RPO               | 100%           | 50                     | 0                     |
|                             | 0%             | 0                      | 0                     |
|                             | 0%             | 0                      | 0                     |
| <b>TOTAL MPO/RPO Points</b> |                | <b>50</b>              | <b>0</b>              |

**Project Cost and Source**

|                        |                     |                      |
|------------------------|---------------------|----------------------|
| Construction Cost:     | \$28,500,000        | TIP Unit             |
| Right-of-Way Cost:     | \$1,380,000         | Cost Estimation Tool |
| Utilities Cost:        | \$0                 | Cost Estimation Tool |
| Total Project Cost:    | \$29,880,000        |                      |
| Other Funding:         | \$0                 | None                 |
| <b>Cost to NCDOT :</b> | <b>\$29,880,000</b> |                      |